UK Patent Application (19) GB (11) 2 256 209 (13) A

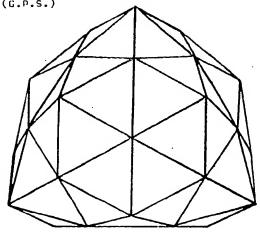
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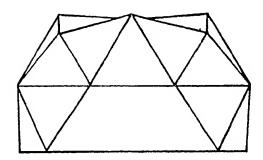
- (51) INT CL⁵ E04B 1/32
- (52) UKCL (Edition K) E1D DGS D2019 U1S S1012 S1018 S1720 S1723 S1730 S1734 S1737 .
- (56) Documents cited WO 83/00892 A1 US 4665665 A GB 2051918 A US 2978074 A
- (58) Field of search UK CL (Edition K) E1D DGS DLDKN INT CL⁵ E04B, E04H

- (54) General protection structure
- (57) A general protection structure is comprised of equal length stress members that are arranged in equilateral triangulation so as to form pentagonal pyramids that, when joined together form the extremely strong main frame of the structure.

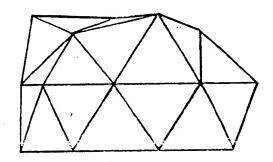
GENERAL PROTECTION STOPLINGS
(G.P.S.)



PLAN VIEW



FRONT ELEVATION



SIDS ELEVATION
The view from other eide persecuends.

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GENERAL PROTECTION STRUCTURE

This invention relates to a general protection structure

PRINCIPAL USE

The invention has a wide application in many various fields where there is a requirement for a protective structure of a temporary nature, without the need for conventional load bearing walls, pillars or support cables. Such as: Workshop, frame tent, garage, Fruit cage, Aviary, Pool cover, Storage warehouse, Greenhouse, Hangar, Explosion building, Animal pen, Climbing frame, Building site cover, Portable entertainment building, barn, etc..

PURPOSE

A strong, lightweight, safe and rapid method of construction. The strength being in the shape and configuration.

EXISTING STRUCTURES

Existing structures require, either conventional load bearing walls, pillars or securing cables to obtain equal strength and rigidity. They also require expensive materials and labour intensive methods of construction.

FEATURES

The main feature being, the method that strength and rigidity is obtained from the shape and configuration of the structure. It is comprised of equal length stress members and connectors, to form pentagonal pyramids that, when joined into the shape and configuration as shown in the diagram, form the main frame of the structure.

FUNCTION!

All loads are shared between the stress members, connectors and cladding that form the equilateral triangulation of the pentagonal pyramids that offer the strength and rigidity to the structure. The pentagonal pyramids being the main feature.

APPRAISAL

The structure is very light in weight, easily assembled and dismantled. The component parts are easily transported. There is nothing to compare with the unobstructed area/strenght and volume/weight ratio. Thus offering a better margin of safety. The cladding can vary in specification to combat: Cold, Heat, Noise, Wind, Rain, Humidity, Trespass etc.. Thus offering a cheap, strong and safe general protection structure.

CLAIMS

- 1 A general protection structure comprised of equal length stress members and junction connectors, to form pentagonal pyramids that, when joined in the shape and configuration as shown in the diagram, form the main frame of the structure.
- 2 A general protection structure as claimed in claim 1, wherein more stress members and connectors are employed to triangulate the walls between the pentagonal pyramids of the structure.
- 3 A general protection structure as claimed in claim 1 and 2 wherein a plyable cover is secured to the main frame to combat the elements.
- A general protection structure as claimed in claim 1 and 2 wherein equilateral triangular insulation panels are secured in between the stress members to combat the various elements.
- A general protection structure as claimed in claim 1,2 and either 3 or 4, wherein swing doors are provided between the pentagonal pyramids forming the walls of the structure.
- A general protection structure as claimed in claim 1,2 and either 3 or 4, wherein, outriggers are provided to secure sliding doors between the pentagonal pyramids forming the walls of the structure.
- 7 A general protection structure as claimed in claim 1,2 and either 3 or 4, wherein an up-and-over door is provided between the pentagonal pyramids forming the walls of the structure.

Pat nts Act 1977 F aminer's report to the Comptroller under Section 17 (The S arch Report)

plication number \$222831.5

Relevant Technical fields		Search Examiner
(i) UK CI (Edition ^K	F1D DG5, DLDKN	
(ii) Int CI (Edition ⁵	E04B, E04H	J D CANTRELL
Databases (see over) (i) UK Patent Office		Date of Search
(ii)		13 APRIL 1992

Documents considered relevant following a search in respect of claims 1-7

Category (see over)	Identity of docu	Relevant to claim(s)	
х	GB 2051918 A	WORTH	1, 3, 4,
x	WO 83/00892 A1	BERGER	1, 4
x .	US 4665665	WILKINSON	1, 4
x	US 2978074	SCHMIDT	1, 3

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Category	Identity of document and relevant passages	Relevant to claim(s)
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Categories of documents

- X: Document indicating lack of novelty or of inventive step.
- Y: Document indicating lack of inventive step if combined with one or more other documents of the same category.
- A: Document indicating technological background and/or state of the art.
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- E: Patent document published on or after, but with priority date earlier than, the filing date of the present application.
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